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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/486,538	06/05/2000	MITSUAKI OSHIMA	YAMAP0699US	8734

7590 03/25/2004

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EXAMINER

BOCCIO, VINCENT F

ART UNIT PAPER NUMBER

2615

DATE MAILED: 03/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/486,538

Applicant(s)

OSHIMA ET AL.

Examiner

Vincent F. Boccio

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _____ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on _____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) 22-47 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3 & 6</u> . | 6) <input type="checkbox"/> Other: _____ |

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Detailed Office Action

Election

1. Applicant's election without traverse of Species I, claims 1-21 in Paper No. 9 is acknowledged.

Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Oshima et al. (WO 98/25413), which is relied upon in view of the US 6,573,819, which is presently deemed to be the corresponding translation or an equivalent disclosure in English.

Regarding claims 1 and 14-16, Oshima discloses and meets the limitations associated with a optical disk reproduction apparatus, in which the optical disk has recorded thereon,

O at least a first and second video stream (Fig. 61) representing a low and a high frequency components ("Low Freq. Component element 141" and "High Freq. Component element 143") of the video signal (video signal "525P", into A & B to 141 and 143, col. 32, lines 38-49, "Fig. 63 is basically the same as those shown in Figs. 22 & 23", wherein in Fig. 23, clearly shows interleaving of the GOPs data between a Main GOP and Sub GOP, which are different in freq. components from the same video signal, as also shown in Fig. 61);

O a reproduction section for reproducing the first and second and dividing the first and second and decoding sections (Fig. 61, "reproduction apparatus", divided video at "250 and 251", "decoders 1 & 2"); wherein the output section selectively outputs at least one of the first and second, as a output video signal.

Regarding claims 2-10, 18-21, Oshima further discloses and meets the limitation of wherein the first and second units

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have time information (MPEG GOP stream inherently have time information for synchronization and presentation),

- O further meets the limitation of a reference time signal generation section generating a reference time signal further providing a first and second control sections and decoders controlling the reproduction time of the first and second signals in accordance with the reference and time information, thereby adjusting with an adjusting section thereby causing the first and second video streams, as well as the audio to be synchronized (col. 2, lines 34-41, etc....., Fig. 61, "decoder 1 & 2, 3-2 transform synch. Section, also see Fig. 30, "AV Synch section 158", clock 163, "switching timing STC"), claims 2-5,
- O further discloses skipping and repeating frames (col. 53, lines 36-44, skipping or repeating, based on reference time and VPTS), claim 6;
- O wherein the time information includes at least one of PTS, DTS and SCR (Fig. 7, "VPTS is PTS for video, APTS for audio"), claim 7;
- O further a converter for converting a first signal to a second pixel number to another (col. 18, lines 26-37, col. 51, lines 18-27, based on ID data Fig. 49, "Progressive Id and Resolution ID"), which converted based on the ID for the data, claim 8-9;
- O further discloses controlling the rotation speed which is in response to an ID corresponding to the pixel number of the signal (col. 45, lines 48-57, "2x 525 p", based on the ID, as shown in Fig. 49, such as "Resolution 00, 01, 10", and "Progressive 1/0"), claim 10;
- O further discloses and meets the limitation of an ID representing 24 frames (col. 32, lines 39-49, "3-2 transform identifier synchronized with the sum and difference signals is added"), wherein a converter converts the video signal into a 60 frames per second signal and outputting a frame signal in an overlapping manner (col. 45, lines 48-57, "3-2" and "60 frames/sec. Progressive ... doubling the horizontal", therefore, overlapping frames by line doubling, claim 11;

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- O wherein the buffer memory has a size greater than a GOP or a GOP of the second units, wherein the memory section has a size or capacity of 1 m or greater (col. 36, lines 1-11, "1 MB or more"), claim 12-13;
- O differential unit for generating a differential signal (Fig. 44, "116 a, Differential Device") which calculates, and provides an ID indicating that the second signal was output from the differential calculator (Fig. 49, "220"), claims 17-19;
- O further discloses different pixel numbers for the first and second signals based on different formats and provides identifiers for the pixels number corresponding to the first and second reproduction signals (Fig. 49, "resolution ID 219, {00:525}, {01:720}, {10:1050}", in each stream), claims 20-21.

Contact Fax Information

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:
(703) 872-9314, (for formal communication intended for entry)

or: (703) 308-5359, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

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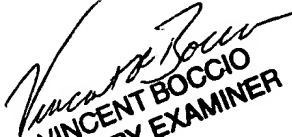
Contact Information

1. Any inquiry concerning this communication or earlier communications should be directed to the examiner of record, Monday-Thursday, 8:00 AM to 5:00 PM Vincent F. Boccio (703) 306-3022.

If any attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andy Christensen (703) 308-9644.

Any inquiry of a general nature or relating to the status of this application should be directed to Customer Service (703) 306-0377.

Primary Examiner, Boccio, Vincent
3/18/04


VINCENT BOCCIO
PRIMARY EXAMINER